

## **Dr. C. ANANTHARAJ, M.Sc., M.Phil., Ph.D**

Assistant Professor and Head

Department of Mathematics and Statistics,

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**Teaching Experience:**            **Total: 16+ Years**  
   Undergraduate (B.Sc Statistics) : **13 Years**  
   Post Graduate (M.Sc Statistics): **3+ Years**

### **Educational Qualifications:**

- (i) Ph.D in Statistics(2009) Annamalai University, Annamalai Nagar. Thesis title “Contribution to the study of some Stochastic Models in Manpower Planning”
- (ii) M.Phil in Statistics(2004) Annamalai University, Annamalai Nagar. Thesis title “Renewal processes and its applications”
- (iii) M.Sc in Statistics with Computer Application(2002) Annamalai University, Annamalai Nagar. Dissertation title “A comparative study on Academic Performance of Rural and Urban Students in Perambalur District”
- (iv) B.Sc in Statistics with Computer Applications (2000) Periyar E.V.R College, Bharathidasan University, Trichy.

### **Research Specialization:**

1. Spatial statistics
2. Stochastic processes and its applications
3. Bio Statistics
4. Reliability and Survival analysis

### **Research Project**

Puducherry council of Science and Technology sponsored research project work on “A Geo spatial epidemiological Survey on major diseases spread over in Puducherry” is completed on November 2020.

**Subjects Handling :** Stochastic Processes, Statistical Estimation theory,  
Probability theory Testing of Hypothesis,  
Regression Analysis, Statistical Quality Control,  
Time Series analysis, Reliability analysis,  
Sampling Theory, Real Analysis, Bio statistics

Technical Knowledge : SPSS, SX, FORTAN, C++, Python Programming, R Programming

### **Awards Received:**

Ramasamy Padayachiar Endowment award, Scholarship amount Rs.3000, Government of Tamilnadu for the academic performance in M.Phil degree

### **Conference Organised:**

- (i) Organising Secretary cum Convenor, INTERNATIONAL CONFERENCE ON ADVANCED STATISTICS AND MUTIVARIATE ANALYSIS IN DATA SCIENCE ,Organized by Department of Statistics, Kanchi Mamunivar Government Institute for Postgraduate Studies and Research, Lawspet, Puducherry – 605008 on 11.03.2026.
- (ii) Organising Secretary cum Convenor, “**ADVANCED MATHEMATICAL MODELLING AND ITS APPLICATIONS**” Organized by the Department of Mathematics, Kanchi Mamunivar Government Institute for Postgraduate Studies and Research, Lawspet, Puducherry, on 27-03-2026.

### **Workshop Conducted:**

- (i) Organising Secretary cum Convenor, **TWO DAYS NATIONAL WORKSHOP ON HANDS ON TRAINING PROGRAM FOR DATA ANALYSIS USING STATISTICAL SOFTWARE SPSS, AMOS, R AND LATEX** Organized by Department of Statistics, Kanchi Mamunivar Government Institute for Postgraduate Studies and Research, Lawspet, Puducherry, on 09.03.2026 to 10.03.2026.
- (ii) Coordinator, “**National Symposium on Technology Enabled Education: Opportunities and Challenges**” sponsored by RUSA, 31st, October 2015, Indira Gandhi College of Arts and Science, Puducherry.
- (iii) Coordinator, “**National Seminar on recent trends in health sciences**” sponsored by RUSA, 10th, October 2015, Indira Gandhi College of Arts and Science, Puducherry.
- (iv) Coordinator, “**Advanced Training Program in Statistics**”, sponsored by Indian Statistical Institute, Chennai Center, 17-22 December 2013, Department of Statistics, Indira Gandhi College of Arts and Science, Puducherry.
- (v) Coordinator, “**National Workshop on Statistical Analysis and Interpretation using SPSS and AMOS**”, 7-8, December 2012, Department of Statistics, Indira Gandhi College of Arts and Science, Puducherry.

### **Invited Talk**

- (i) One day Skill development program on “Statistical Software: An overview” held at Department of Mathematics, Tagore Government Arts and Science college, Lawspet, Puducherry on 22.04.2025.
- (ii) One day workshop entitled on Modern Statistics: Innovations and Insights' held on 15th February 2025 in the Department of Statistics, Government Arts College (Autonomous), Salem -636007.
- (iii) State level seminar on recent advancements in Education, Venkateswara College of Education, Puducherry, Lecture on “ TECHNOLOGICAL BASED QUANTITATIVE AND QUALITATIVE ANALYSIS OF LEARNING OUTCOMES”, 28th September, 2024.

- (iv) Census data dissemination workshop, Directorate of census operations, Puducherry and Department of Statistics, Indira Gandhi college of Arts and Science, Puducherry, India. Title of paper “An overview of scheduled caste population in India”, 9<sup>th</sup> January 2015.
- (v) National Conference on Recent Trends And On Applications In Mathematics And Physics, Department Of Mathematics And Physics, Dhanalakshmi Srinivasan College Of Arts And Science For Women Perambalur, Tamil Nadu, India, “Stochastic Processes and their applications”, 13-14 March 2014.
- (vi) Vivekanandha college for women, Department of Mathematics, Unjanai, Namakkal, Tamilnadu India. Guest Lecture on “Sampling Techniques” on 25<sup>th</sup> February 2021.

**Project Guided**

**Post Graduate students : 58**

**Under Graduate students: 18**

Sl. No.	Title of the Project
1.	TREND ANALYSIS OF WHOLE SALE PRICE INDEX(WPI) AND CONSUMER PRICE INDEX(CPI)
2.	A STATISTICAL STUDY ON LIVE STOCK POPULATION IN INDIA
3.	A STATISTICAL STUDY ON CHANGES IN THE SHARE PRICES OF DIFFERENT BANKS IN INDIA
4.	A STATISTICAL STUDY ON YIELD OF CROPS IN PUDUCHERRY
5.	A STATISTICAL QUALITY CONTROL ON MATERIAL USING FABRICATION INDUSTRY
6.	A STATISTICAL STUDY ON CRYPTOCURRENCY
7.	A STATISTICAL STUDY ON FOREIGN TRADE PERFORMANCE ANALYSIS ON INDIA'S FIRST NINE PROFITABLE PRODUCT GROUPS EXPORT TO FIRST FIVE COUNTRIES
8.	A STATISTICAL STUDY ON CONSUMPTION OF PETROLEUM PRODUCTS IN INDIA
9.	A STATISTICAL STUDY ON ANNUAL RAINFALL IN PONDICHERRY U.T
10.	A STATISTICAL STUDY ON MILK PRODUCTION IN INDIA
11.	A STATISTICAL STUDY ON INDEX NUMBER OF WHOLESALE PRICE OF TEN PRODUCTS IN INDIA
12.	STATISTICAL ANALYSIS OF SYNTHETIC CHENICALS IN COSMETICS AND THEIR IMPACT ON HUMAN HEALTH
13.	A STATISTICAL STUDY OF IMPACT ON AI TOOLS WITH SPECIAL REFERENCE TO PYTHON
14.	A COMPARATIVE TREND ANALYSIS OF TRANSACTION BEHAVIOUR OF PUBLIC SECTOR BANKS IN INDIA

15.	A STOCHASTIC APPROACH TO STUDY THE NET PAYROLL OF EMPLOYEES PROVIDENT FUND IN SEVEN SISTERS OF INDIA
16.	A COMPARATIVE STUDY ON MAJOR AGRICULTURE CROPS PRODUCTION IN SOUTH INDIA
17.	A STATISTICAL STUDY ON CONSUMER PREFERENCE AND SATISFACTION WITH ONLINE FOOD DELIVERY SERVICES AMONG COLLEGE STUDENTS
18.	A STATISTICAL STUDY ON STUDENTS CONSUMPTION OF COMMON BEVARAGES
19.	A STATISTICAL STUDY ON SCREEN TIME PATTERNS AND HEALTH IMPACTS AMONG INDIAN CHILDREN AGE (08-18)
20.	A STATISTICAL STUDY ON COLLEGE STUDENT'S PERCEPTION ABOUT POCKET MONEY AND SAVINGS PATTERN
21.	A STATISTICAL STUDY ON STUDENTS SATISFACTION WITH SPECIAL BUS SERVICE (1.RS BUS)
22.	A STATISTICAL STUDY ON THE ANALYSIS OF PAY GAP
23.	AN ANALYTICAL STUDY ON CONSUMER BEHAVIOUR OF SOCIAL MEDIA AND STREET FOOD
24.	A STATISTICAL EXPLORATION OF SLEEP PATTERNS, SCREEN HABITS AND ACADEMIC STRESS AMING COLLEGE STUDENTS
25.	A STATISTICAL STUDY ON FASTING MIMICKING DIET

### Under Graduate students Project: 18

<b>Sl. No.</b>	<b>Title of the Project</b>
1	A Statistical Study on Gross Domestic Product in India, China, Pakistan, Sri Lanka and Bangladesh – April 2022
2	A Statistical Study on Market Prices of Essential Commodities in Puducherry and Karaikal – April 2022
3	A Statistical Study on Indian Agriculture System – April 2021
4	A Statistical Study on Crimes in Pondicherry – April 2021
5	A Statistical Study on Awareness of Physical Fitness Among The Students of IGCAS – April 2019
6	A Statistical Study on Problem and Preceptions Among Food Delivery Boy's – April 2019
7	A Statistical Study on occupational Related Problems of Women street Sweepers in Puducherry District – April 2018

8	A Statistical Study on Ro Drinking water Management in Puducherry District – April 2017
9	Comparative Study On Fast Moving Consumer Goods - Indian Product Vs International Product – April 2016
10	A Statistical Survey On Student Performance In Different Subjects Of Statistics In IGCAS – April 2016
11	A Statistical Study on Quality of Life of Alcoholic Drinkers in Puducherry – April 2015
12	Consumer Survey On Home Appliances In Pondicherry
13	A Sample Survey On Buying Trends Of Two-Wheelers In Pondicherry
14	A Comparative Study On Students Academic Performance In Igcas
15	A Statistical Study Related To Iq Level Of Indira Gandhi College Of Arts And Science Students
16	A Statistical Study On Computer Knowledge And Anxiety Of Undergraduate Students
17	A Statistical Study On People’s Awareness On Saving Of Money In Puducherry
18	A Statistical Study On Police Stress Management In Puducherry
19	A Statistical Study On High School Student’s Opinion On Equity Education System In Puducherry
20	Police Stress Management - A Statistical Study
21	A Statistical Study On Awareness Of Equity Education In Puducherry
22	A Statistical Study on Level of Anaemia of College Students in Puducherry

## **Publication List:**

- (i) Anantharaj,C, and Marie Joshphin Aruna (2026), A STATISTICAL STUDY ON WOMEN STREET SWEEPERS IN PUDUCHERRY, Accepted for publication, Shanlax Journals <https://shanlaxjournals.in/journals/index.php/index>, Vol.13, special issue 2, pp.222-225
- (ii) Anantharaj,C, and H.Sri Sweetha (2026), A STATISTICAL ANALYSIS OF IMPACT OF MOBILE USAGE OF CHILDREN'S IN PONDICHERRY, Accepted for publication, Shanlax Journals <https://shanlaxjournals.in/journals/index.php/index>,Vol.13, special issue 2, pp.6-9.
- (iii) Anantharaj,C , Bhuvanewari,S.,, Haridoss,G.,Indhumathi,r and Manikandan,M(2022), Stochastic Analysis and Forecasts of GDP in India and economy and Neighboring countries,International Journal of Management and Applied Sciences, Volume-8, Issue-9, pp.8-14.
- (iv) Anantharaj,C (2019), A study on Police stress and Management in Puducherry, Journal of research and Analytical reviews, vol.6, issue 2, pp-205-208.
- (v) Anantharaj,C (2019), Determination of the time to recruitment in manpower planning with wastages, International journal of emerging technologies and innovative research, Vol.6, Issue 6.
- (vi) Anantharaj,C (2019), Replacement strategies in manpower planning under SCBZ property, International Journal of research and Analytical reviews, vol.6, issue 2, pp-512-517.
- (vii)Anantharaj,C and R.Elangovan (2019), Stochastic approach for replacement strategies in manpower planning, International Journal of Emerging Technologies and Innovative Research, Vol.6, issue 5, pp145-149.
- (viii) Elangovan, R, C.Anantharaj and R.Satiyamoorthi (2006). Optimal Policy for Hiring of Expertise Service in Manpower Planning, Bullitin of Pure and Applied Sciences, Vol.25E, No. 1, pp.51-65.
- (ix) Elangovan, R, C.Anantharaj and R.Satiyamoorthi (2006). Shock Model Approach to the Determionation of Optimal Time Interval between Recruitments, Journal of Ultra Scientist of Physical Sciences,Vol.18, No.2, pp. 233-238.
- (x) Elangovan, R, C.Anantharaj and R.Sivasamy (2006). Replacement Strategies in Manpower Planning, Journal of Science, Annamalai University, Vol.43, pp. 161-172.
- (xi) Elangovan, R., C. Anantharaj and R. Sathiyamoorthi. (2008). Optimisation Model for Hiring of Specialised Service in Manpower Planning. International Journal of Business Insights and Transformation, Vol. 1, No. 1, pp. 46-50.

## **Paper Presented in the National, International Conferences:**

- (i) National Conference on Exploring Emerging Paradigms and Management. “A Stochastic Approach to study the Net Pay roll of Employees Provident Fund in Seven Sisters of India”, 04th November 2025, Department of Commerce, Bharathidasan Government College for Women, Puducherry.

- (ii)** National Conference on Exploring Emerging Paradigms and Management. “A comparative trend analysis of transaction behaviour of public sector banks in India”, 04th November 2025, Department of Commerce, Bharathidasan Government College for Women, Puducherry.
- (iii)** National Conference on Exploring Emerging Paradigms and Management. “A comparative study on Major Agriculture crops Production in South India”, 04th November 2025, Department of Commerce, Bharathidasan Government College for Women, Puducherry.
- (iv)** UGC Sponsored National Conference on Advanced Technology to Enhance the Women Health, “COMPARATIVE STUDY ON LIFESTYLE OF RURAL AND URBAN WOMENS IN PUDUCHERRY”, 13-14 February, 2025, Women’s Studies Centre, Periyar University, Salem, TN.
- (v)** UGC Sponsored National Conference on Advanced Technology to Enhance the Women Health “A STATISTICAL STUDY ON LEVEL OF ANAEMIA OF COLLEGE STUDENTS IN PUDUCHERRY”, 13-14 February, 2025, Women’s Studies Centre, Periyar University, Salem, TN.
- (vi)** UGC Sponsored National Conference on Advanced Technology to Enhance the Women Health, “THE PERCEPTION OF WOMEN ON MOBILE USAGE OF THEIR CHILDREN IN PUDUCHERRY”,13-14 February, 2025, Women’s Studies Centre, Periyar University, Salem, TN.
- (vii)** UGC Sponsored National Conference on Advanced Technology to Enhance the Women Health, “A STATISTICAL STUDY ON VITAL INDICATORS OF GIRL CHILD IN INDIA” 13-14 February, 2025, Women’s Studies Centre, Periyar University, Salem, TN.
- (viii)** International Conference on Business Management and Social Innovation(ICBMSI), World Research Forum For Engineers And Researchers –WRFER, Stochastic Analysis and Forecasts of GDP in India, Economy and Neighboring Countries, Andaman and Nicobar Islands, India on 14 August, 2022.
- (ix)** International Conference on Statistical Theory and Practice, Department of Statistics, Pondicherry University, Pondicherry. Title of the paper presented, “Stochastic Models in manpower replacement planning”, 14-16, December 2013.
- (x)** 94<sup>th</sup> Indian Science Congress, Annamalai University, Annamalai Nagar, Tamilnadu, India. Title of the paper presented “ On the Application of Replacement Strategies for Promotion in Manpower Planning”, 3-4, January 2007.
- (xi)** 30<sup>th</sup> Indian Social Science Congress, Alagappa University, Karaikudi, Tamilnadu, India. Title of the paper presented “A Study on Structural Control in a Markov Manpower Model”,27-31, Dec 2006.

- (xii) National Seminar on Statistical Models and Methods for Data Analysis - Recent Developments, Department of Statistics, Annamalai University, Tamilnadu, India. Title of the paper presented “Estimation for Manpower Models in a Stochastic Environment”, 8-9, March 2006.
- (xiii) International Conference on Emerging Adoptive System and Technologies, Noorul Islam College of Engineering, Kumarakoil, Tamilnadu. Title of the paper presented “ Women Students in Information Technology-A Statistical Appraisal of Kanyakumari District”, 16-17 December 2005.
- (xiv) Ugc Sponsored National Seminar on New Frontiers of Soil Science Research Towards Sustainable Agriculture, Department of Soil Science and Agricultural Chemistry, faculty of Agriculture, Annamalai University. Title of the paper presented “Design and Analysis of Data from Intercropping Experiments”, 11-12 March 2005.
- (xv) International Conference on Recent Developments in Statistics and their Applications, Department of Statistics, Sri Venkateswara University, Tirupati. Title of the paper presented “ A Study on the Estimation on Censored Data in Manpower Planning”, 3-4, January 2005.

**Workshops attended:**

- (i) SENSITIZATION WORKSHOP FOR ETHICS COMMITTEES ON FIRST-IN-HUMAN INFECTION STUDIES, was conducted by the Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry, Christian Medical College (CMC), Vellore & Clinical Development Services Agency (CDSA), an extramural centre of Translational Health Science & Technology Institute (THSTI), Faridabad, AUGUST 6-7, 2021.
- (ii) National Workshop on Geostatistics & Spatial Data Analysis, Pondicherry University, Puducherry, India, 19-21 December 2012.
- (iii) National Workshop on Recent Trends in Tribal Demography, Annamalai University, Tamilnadu, India, 23-24, February 2006.
- (iv) Summer School of Stochastic Processes, Indian Statistical Institute, Bangalore, India, 4-16, July 2005.

**Refresher Course:**

- (i) **Computer Science and Information Technology and ICT (Multi-Discipline) on 03-09-2013 to 23-09-2013, PONDICHERRY UNIVERSITY**

**Orientation Course:**

- (i) Academic staff college, PONDICHERRY UNIVERSITY, 20-05-2009 TO 16-06-2009

**FDP attended**

- (i) Faculty Development Program on “R Programming for Scientists and Engineers” from 30.06.2017 to 05.07.2017 at Department of Computer Science and Engineering, National Institute of Technology, Warangal.

- (ii) Faculty Development Program on “MANAGING ONLINE CLASSES AND CO-CREATING MOOCS 2.0”, from 18 MAY - 03 JUNE, 2020., Teaching Learning Centre, Ramanujan College, New Delhi.
- (iii) One-week training programme on “Official Statistics “at NSSTA, Greater Noida, U.P., during 27th to 31st May, 2019.

**Administrative Activities:**

- (i) COLLEGE **NODAL OFFICER** FOR AISHE, MHRD, GOVT. OF INDIA.
- (ii) COLLEGE **NODAL OFFICER** FOR SCHOLARSHIPS (NSP)-till 2022
- (iii) **MEMBER**, NAAC COMMITTEE
- (iv) **MEMBER**, RUSA COMMITTEE,
- (v) **MEMBER**, IQAC COMMITTEE,
- (vi) **MEMBER**, COLLEGE WEBSITE COMMITTEE
- (vii) **MEMBER**, SC/ST CELL
- (viii) **MEMBER**, STUDENT ADVISORY COMMITTEE
- (ix) **MEMBER**, COLLEGE DATA BASE LINE SURVEY COMMITTEE